| Index | of | Cla | ims |
|-------|----|-----|-----|
|-------|----|-----|-----|



|     |   | -   |      |     | _  |   |    |   |   |   |   |   |
|-----|---|-----|------|-----|----|---|----|---|---|---|---|---|
| App | ı | ica | tion | 1/  | Co | n | tr | o | ı | N | o |   |
|     | • |     |      | ••• |    |   |    | _ | • |   | _ | • |

JAPUNTICH ET AL.

Applicant(s)/Patent under Reexamination

09/678,580 Examiner

Art Unit

Annette F. Dixon

3771

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla         | im       |                |  |  |  | Date   | <del></del>                                      |  |  |  | ſ   | Cla   | im       |          |        |          | Ε             | ate | -        |          |          |   |
|-------------|----------|----------------|--|--|--|--|--|--|--|--|-----|-------|----------|----------|--------|----------|---------------|-----|----------|----------|----------|---|
|             |          |                |  |  |  |  |  |  |  |  | - 1 |       |          |          |        |          |               |     |          |          |          |   |
| <u> </u>    | Original | 11/5/07        |  |  |  |  |  |  |  |  |     | Final | Original | 11/5/07  |        |          |               |     |          |          | . 1      |   |
| Final       | rig      | 1/6            |  |  |  |  |  |  |  |  |     | 证     | ij       | 11/      |        |          |               |     |          |          |          |   |
|             | 0        | -              |  |  |  |  |  |  |  |  |     |       | 0        |          |        |          |               |     |          |          |          |   |
|             | 1        |                |  |  |  |  |  |  |  |  | İ   |       | 51       | 1        |        |          |               |     |          |          |          |   |
|             | 2        | -              |  |  |  |  |  |  |  |  |     |       | 52       | V        |        |          |               |     |          |          |          |   |
|             | 3        | -              |  |  |  |  |  |  |  |  |     |       | 53       | V        |        |          |               |     |          |          |          |   |
|             | 4        | -              |  |  |  |  |  |  |  |  |     |       | 54       | 1        |        |          |               |     |          |          |          |   |
|             | 5        | -              |  |  |  |  |  |  | Г  |  |     |       | 55       | 1        |        |          |               |     |          |          |          |   |
|             | 6        | -              |  |  |  |  |  |  |  |  |     |       | 56       | 1        |        |          |               |     |          |          | $\Box$   |   |
|             | 7        | -              |  |  |  |  |  |  |  |  |     |       | 57       | -        |        |          |               |     |          |          |          |   |
|             | 8        | -              |  |  |  |  |  |  |  |  |     |       | 58       | 1        |        |          |               |     |          |          |          |   |
|             | 9        | -              |  |  |  |  |  |  |  |  |     |       | 59       | -        |        |          |               |     |          |          |          |   |
|             | 10       | -              |  | Г  |  |  |  |  | -  |  |     |       | 60       | 1        |        |          |               |     |          |          |          |   |
|             | 11       | -              |  |  |  |  |  |  |  |  |     |       | 61       | V        |        |          |               |     |          |          |          |   |
|             | 12       | -              |  |  | <del></del>                                      |  |  |  |  |  |     |       | 62       | V        |        |          |               |     |          |          |          |   |
|             | 13       | -              |  |  |  | Γ  |  |  |  |  |     |       | 63       | V        |        |          |               |     |          |          |          |   |
|             | 14       | -              | Г  |  |  |  |  |  |  |  |     |       | 64       | V        |        |          |               |     |          |          |          |   |
|             | 15       | -              |  |  | -  |  | -  |  |  |  |     |       | 65       | V        |        |          |               |     |          |          |          |   |
|             | 16       | -              | 1  |  | Г  |  |  | -  |  |  |     |       | 66       | 1        |        |          |               |     |          |          |          |   |
|             | 17       | -              |  |  | Г  |  |  |  |  |  |     |       | 67       | V        |        |          |               |     |          |          |          |   |
|             | 18       | -              | -  | <b>-</b>   | _  |  |  | 1  |  | ऻ  |     |       | 68       | V        |        |          |               |     |          |          |          |   |
| <b>—</b>    | 19       | -              | 一  | ┢  |  | _  | -  | _  |  |  |     |       | 69       | 1        |        |          |               |     |          |          |          |   |
|             | 20       | -              | ┢  |  |  |  |  |  |  | t  |     |       | 70       | V        |        |          |               |     |          |          |          |   |
| _           | 21       | -              | T  | ┢  |  | Г  |  | Г  |  |  | 1   |       | 71       | 1        |        |          |               |     |          |          |          |   |
|             | 22       | -              | ┢  |  | ┢  | t  | ┢  |  |  | _  | i   |       | 72       | 1        | Г      |          |               |     |          |          |          |   |
|             | 23       | -              | T  | $\vdash$   | <del> </del>                                     | Ħ  |  | Г  | <del>                                     </del> |  | ĺ   |       | 73       | V        |        |          |               |     |          |          |          |   |
|             | 24       | -              | 1  | ┢  |  | Ι  | T  |  |  | <u> </u>   | 1   |       | 74       | 1        |        |          |               |     |          |          |          |   |
|             | 25       | <del>  -</del> | $\vdash$   |  | 1  | T  |  |  | <u>├</u>   |  | İ   |       | 75       | 1        | Г      |          |               | Г   |          | Π        |          |   |
|             | 26       | ۱-             | <del>                                     </del> | 1  | T  | $\vdash$   |  |  |  | Ι  |     |       | 76       | V        | Г      |          |               |     | 1        |          |          |   |
|             | 27       | -              | 1  | <u> </u>   | ┢  |  | _  |  |  | 1-   | 1   |       | 77       | 1        | Т      |          |               | Т   |          | Г        |          |   |
|             | 28       | -              | <del>                                     </del> | <u> </u>   | H  | -  |  |  | t  | $\vdash$   | 1   | _     | 78       | V        |        |          |               |     |          |          |          |   |
|             | 29       | <b> </b> -     | <del> </del>                                     |  | ┢  | ┢  |  | ┢  | T  | <del>                                     </del> | 1   |       | 79       | V        | Г      |          |               | Г   |          |          |          |   |
|             | 30       | Ι-             | $\vdash$   | ╁  | t  | ├  |  | ┢  | 1  | Ì  | 1   |       | 80       | 1        | T      |          | $\overline{}$ | 1   |          |          | T.       | П |
|             | 3.1      | <del>  -</del> | 1  | $\vdash$   | ┢  | $\vdash$   |  | t  | ╁  | 1-   | 1   |       | 81       | 1        | Т      |          |               |     |          |          |          | П |
| -           | 32       | ۱.             | -  | ╁╴   | ├~   | <del>                                     </del> |  | $\vdash$   | t  | 1-   | 1   |       | 82       | V        | t      | Г        | Т             | T   |          |          | П        |   |
| -           | 33       | † <u>-</u>     | $\vdash$   | $\vdash$   | 1  | ╁  |  | <del>                                     </del> | T  | <del>                                     </del> | 1   |       | 83       | V        |        | ┰        | <u> </u>      |     | $\vdash$ |          | Г        |   |
|             | 34       | V              | t  | <del>                                     </del> | 1  |  | <del>                                     </del> |  | 1  | t  | 1   |       | 84       | V        | $\Box$ | $\vdash$ |               |     | П        | Ī        | П        | П |
| <u> </u>    | 35       | Ì              | †  | $\vdash$   | <del>                                     </del> | T  | $\vdash$   | t  | T  | $\vdash$   | 1   |       | 85       | V        |        | Ι-       | 1             | T   | T        | T        | П        |   |
| -           | 36       | V              | 1  | $t^-$  | 1  |  | 1  | t  | 1  | †  | 1   |       | 86       | 1        | T      | $\vdash$ |               | Γ   |          |          | _        |   |
|             | 37       | V              | t  | <del>                                     </del> | T  | $\vdash$   | 1  | T  | 1  | †  | 1   |       | 87       | V        |        | 1        | Ι             |     | 1        |          | Т        |   |
| <del></del> | 38       | V              | $t^-$  | <del>                                     </del> | $t^-$  | T  | 1  | t  | $\vdash$   | t  | 1   |       | 88       | 1        |        | Г        | 1             | İ   | T        |          | Г        |   |
|             | 39       | 1              | t  | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$   | t  | t  | T  | 1   |       | 89       | l        |        | 1        |               | T   |          | Τ-       | 1        |   |
|             | 40       | i              | 1  | t  | 1-   |  | $\vdash$   | $\vdash$   | t  | 1  | 1   |       | 90       | $\vdash$ | T      | $\vdash$ | $\vdash$      | t   | 1        | T        | $\sqcap$ |   |
|             | 41       | V              | t  | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$   | †-   | t  | 1   |       | 91       | 1        | T      | 1        | f             | 1   |          | T        | $\vdash$ |   |
|             | 42       | V              | t  | 1  | $\top$   |  | T  |  | t  | $t^-$  | 1   |       | 92       | 1        |        |          | 1             | T   | 1        | 1        | Г        |   |
|             | 43       | V              | T  | 1  | ╁  | $\vdash$   | <del>                                     </del> | t  | t  | $\vdash$   | 1   |       | 93       | 1        |        |          | 1             |     | 1        | 1        | Г        |   |
| -           | 44       | i              | 1  | T  | T  | 1  | T  | ╁  | 1  | T  | 1   |       | 94       | T        | $\Box$ |          | T             | Т   | П        | 1        | П        |   |
|             | 45       | i              | $\vdash$   | $\vdash$   | T  | 1  | <del>                                     </del> | t  | †-   | T  | 1   |       | 95       | $t^-$    | Т      | 1        | İ             | 1   |          |          | _        |   |
|             | 46       | V              | $\vdash$   | t  | †-   | 1  | $\vdash$   | 1  | t  | +  | 1   |       | 96       |          | 1      |          |               |     | 1        | 1        |          |   |
| -           | 47       | i              | 1  | t  | t  | 1  |  | 1  | 1  | T  | 1   |       | 97       | $\top$   | 1      |          |               | 1   |          | $\vdash$ |          | П |
| $\vdash$    | 48       | i              | †  | $\vdash$   | +-   | T  | t  | $t^-$  | T  | 1  | 1   |       | 98       | $\top$   | 1      |          |               | 1   |          | Т        |          | П |
|             | 49       | Ì              | †"   | 1  | t  | 1  | 1  | $\vdash$   | $\top$   |  | 1   |       | 99       |          |        |          |               |     |          | L        | Ľ        |   |
|             | 50       | す              | 1  | 1  | 1  |  | <b>†</b>   |  |  | $\top$   | 1   |       | 100      |          |        |          |               |     |          | L        |          |   |
|             | , 55     | ·              | _  |  |  |  | -  | _  |  | .—   |     | L     |          | _        | •      |          | •             |     | *        | •        |          |   |

| Cla          | im .                             | Date   |          |  |              |  |  |  |  |  |
|--------------|----------------------------------|--|----------|--|--------------|--|--|--|--|--|
|              |                                  |  |          |  |              |  |  |  |  |  |
| <del> </del> | Original                         | 11/5/07  |          |  |              |  |  |  |  |  |
| Final        | igi                              | /2/  |          |  |              |  |  |  |  |  |
| ۳.           | ŏ                                | =  |          |  |              |  |  |  |  |  |
| <u> </u>     |                                  | _  |          |  |              | _  | -  | _  | _  | $\dashv$   |
|              | 51                               | 4  |          |  | _            |  |  |  |  | $\dashv$   |
|              | 52                               | ٧  |          |  |              |  |  |  |  |  |
|              | 53                               | 7  |          |  |              |  |  |  |  |  |
|              | 54                               | 1  |          |  |              |  |  |  |  |  |
|              | 53<br>54<br>55                   | 77   |          |  |              |  |  |  |  |  |
|              | 56<br>57                         | 7  |          |  |              | Г  |  |  |  |  |
|              | 57                               | _  |          | $\vdash$   | _            | Г  |  |  |  |  |
|              | 58                               | 1  | _        | $\vdash$   | 一            | -  |  | _  |  | $\neg$   |
|              | 50                               |  | _        |  | ⊢            |  | $\vdash$   |  | -  | -  |
|              | 59<br>60                         | -<br>V   | _        |  |              |  | -  | _  |  |  |
| <u> </u>     | 60                               | ~  | _        | <u> </u>   | _            | _  | <u> </u>   |  | _  |  |
| <u></u>      | 61                               | 7  |          | <u> </u>   |              | <u> </u>   | <u> </u>   |  | Щ  |  |
|              | 62<br>63                         | <b>V</b>   |          |  | <u> </u>     |  | lacksquare                                       |  | $\Box$   | _  |
|              | 63                               | ٧  |          |  |              | L  |  |  |  |  |
|              | 64<br>65                         | 1  | L        | L  | L            | L  |  | L  |  |  |
|              | 65                               | 1  |          |  |              | · _  |  |  |  |  |
|              | 66                               | 1  |          | 1  |              | Г  | Г  |  |  |  |
|              | 67<br>68                         | 1  |          |  |              |  |  |  |  |  |
|              | 68                               | V  |          | <del>                                     </del> | ┪            | Г  |  | $\Box$   |  |  |
|              | 69                               | Ì  | _        | -  | ┢            | <u> </u>   |  | $\vdash$   | -  | H  |
|              | 70                               | 1  | -        | $\vdash$   | ┢            | ╁  | <del>                                     </del> | <del>                                     </del> | -  | Н  |
|              | 70<br>71                         | 1  | ┢        | ┝╌   | -            | <del> </del>                                     | -  | $\vdash$   | -  | H  |
|              | 71                               | V  | $\vdash$ | <del> </del>                                     | $\vdash$     | ├  | -  | ┝  | -  | $\vdash$   |
| -            | 72<br>73<br>74<br>75<br>76<br>77 | 7  |          | -  | ├            | ├  | ⊢  | <del> </del>                                     | ⊢  | -  |
| <u> </u>     | /3                               | ,  | L        | <del>  -</del>                                   | <u> </u>     | ├  | <del> </del>                                     |  | -  | $\vdash$   |
|              | /4                               | Į,   | _        | <u> </u>   | _            | ļ  | ⊢  | <u> </u>   | <u> </u>   | 1  |
|              | /5                               | 1  | _        | <u> </u>   | ├_           | 1  | ļ  | <u> </u>   | <u> </u>   |  |
|              | 76                               | V  | ╙        | <u> </u>   | <u> </u>     | _  | ╙  | <u> </u>   |  |  |
| L            | 77                               | 1  | _        | <u></u>  |              |  | _  | ╙  | L_   |  |
|              | 78<br>79                         | 1  |          | L  |              | L  | _  |  |  | _  |
| [            | 79                               |  |          |  | <u> </u>     | _  | L  |  |  | _  |
|              | 80                               | 1  |          |  |              |  |  |  |  |  |
|              | 81<br>82                         | 1  | П        | Г  |              | Г  |  |  | Ī  |  |
|              | 82                               | 1  |          | Г  |              | П  |  |  |  |  |
|              | 83                               | V  |          | $\Box$   | Ţ            | Π  | Γ  |  | Г  |  |
|              | 84                               | 7  | T        | $\vdash$   |              | 1  | П  |  | Π  | Г  |
|              | 85                               | 7 7 7 7  | t        | T  | 1            | Т  |  |  | T  |  |
| -            | 86                               |  | $\vdash$ | $\vdash$   | t            | <del>                                     </del> | <del>                                     </del> |  | <del>                                     </del> | 1  |
|              | 87                               | 1  | $\vdash$ | <del> </del>                                     | +-           | 1  |  | 1  | ┢  | <del>                                     </del> |
|              | 88                               | <del>  `</del>                                   | $\vdash$ | +-   | +-           | $\vdash$   | <del> </del>                                     | $\vdash$   | $\vdash$   | <del> </del>                                     |
|              | 00                               | <del>                                     </del> | -        | +-   | $\vdash$     | $\vdash$   | <del>                                     </del> | <del> </del>                                     | -  | $\vdash$   |
| <u> </u>     | 89                               | ├  | $\vdash$ | $\vdash$   | -            | ₩  | -  | ├  | $\vdash$   | $\vdash$   |
|              | 90                               | ├-   | ⊢        | <del> </del>                                     | ┼            | ₩  | -  | $\vdash$   | ⊢  |  |
|              | 91                               | -  | $\vdash$ | $\vdash$   | <del> </del> | ╀  | $\vdash$   | <del> </del>                                     | $\vdash$   | ├  |
|              | 92                               | <del> </del>                                     |          | -  | <b>├</b>     | +  |  | -  | $\vdash$   | -  |
|              | 93                               | _  | <u> </u> | 1  | 1            |  | _  | <b> </b>   | ₩  | <u> </u>   |
| ļ            | 94                               | <u> </u>   | _        | <u>Ļ</u>   | <u> </u>     | <u> </u>   | 4_   | $\vdash$   | <del>  _</del>                                   | <u> </u>   |
| <u></u>      | 95                               | _  | <u> </u> | 1_   | <del> </del> | 1  | $\vdash$   | <del> </del> _                                   | <u> </u>   | Ļ  |
|              | 96                               | _  |          | _  | _            | 1_   | $\perp$  | <u> </u>   | 1_   |  |
|              | 97                               |  | ا        | $oxedsymbol{oxed}$                               |              |  |  |  |  | <u> </u>   |
|              | 98                               |  |          |  |              |  |  |  |  |  |
|              | 99                               |  |          | $L^{-}$  |              |  |  |  |  |  |
|              | 100                              | П  |          |  | T            |  |  | fΤ   |  | 1  |

| Cla      | aim  | Date   |  |  |  |              |  |              |  |                 |  |  |
|----------|--|--|--|--|--|--------------|--|--------------|--|-----------------|--|--|
| Final    | Original   |  |  |  |  |              |  |              |  |                 |  |  |
| _        |  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 101<br>102   |  | _  |  | _  |              |  |              | -  |                 |  |  |
|          | 102  | $\dashv$   | -  |  | _  |              | $\vdash$   | _            |  | -               |  |  |
|          | 104  |  | _  |  | _  | _            | _  | -            |  | $\dashv$        |  |  |
|          | 104<br>105<br>106  |  |  |  | _  | _            |  |              |  |                 |  |  |
|          | 106  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 107  |  |  |  |  |              |  |              |  | _               |  |  |
|          | 107<br>108<br>109  |  | _  |  |  |              |  |              | _  | ᅴ               |  |  |
|          | 110  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 111  | _  |  |  |  | -            | ┢  | _            | _  |                 |  |  |
|          | 112  |  |  | -  |  |              |  | _            |  |                 |  |  |
|          | 113  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 114  | L  |  | _  |  | <u> </u>     |  |              |  |                 |  |  |
|          | 115  | L  | <u> </u>   | _  | <u> </u>   | ├            | -  | lacksquare   | <u> </u>   | $\vdash \vdash$ |  |  |
|          | 110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119 | <u> </u>   | <u> </u>   | H  | L  | <u> </u>     | -  | -            | <u> </u>   | $\vdash \vdash$ |  |  |
|          | 118  |  | $\vdash$   | ┝  |  | -            | ┢  | -            | $\vdash$   | Н               |  |  |
|          | 119  | $\vdash$   | ┢  | <del>                                     </del> | _  | ╁            | <b></b>  | $\vdash$     | ┪  |                 |  |  |
|          | 120  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 121  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 122  |  | _  | <u> </u>   | _  | ļ            | <u> </u>   | <u> </u>     | <u> </u>   | -               |  |  |
|          | 123  | ├  | <u> </u>   |  |  |              | -  |              |  | $\vdash \vdash$ |  |  |
|          | 125  | ┢  | ┢  |  | -  | -            | ┢  | $\vdash$     | $\vdash$   | H               |  |  |
|          | 126  | $\vdash$   |  | $\vdash$   |  |              | ┢  | _            | $\vdash$   | $\vdash$        |  |  |
|          | 127  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 128  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 129  |  | _  | <u> </u>   | L  |              | <u> </u>   |              |  |                 |  |  |
|          | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 | _  | <u> </u>   | <del> </del>                                     | _  | -            | ┢  | -            |  | $\vdash$        |  |  |
|          | 132  | ├─   | -  | 一  | $\vdash$   | ┢            | ╁╌   | ┢            | $\vdash$   | Н               |  |  |
|          | 132<br>133   | ┢  | <del>                                     </del> | $\vdash$   | -  | <u> </u>     |  | T            | <del> </del>                                     | 1               |  |  |
|          | 1 134  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 135  |  |  |  |  | <u> </u>     |  |              |  |                 |  |  |
|          | 135<br>136<br>137  | ļ  | _  | <u> </u>   |  | <u> </u>     | ┢  | ┝            | <u> </u>   |                 |  |  |
|          | 137  | <del> </del>                                     |  | -  |  | -            | ┝  | -            | <del>                                     </del> | -               |  |  |
| _        | 138<br>139   | ╁  | ┢  | <del> </del>                                     | -  | ╁            | ┼─   | ┢            | $\vdash$   | H               |  |  |
|          | 140  | $\vdash$   | 一  | -  | H  | $\vdash$     | ╁  | ╁            | t  |                 |  |  |
|          | 141  | <del>                                     </del> |  |  |  |              |  |              |  |                 |  |  |
|          | 142  |  |  |  |  |              |  |              |  | П               |  |  |
|          | 143  | ▙  | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>     |  | <u> </u>     | <u> </u>   |                 |  |  |
|          | 144  | -  |  | -  | -  | <del> </del> | ╀  | <del> </del> | -  | <del> </del>    |  |  |
| <u> </u> | 145  | 1  | <del>  -</del>                                   | +  | $\vdash$   | ┼-           | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$        |  |  |
|          | 147  | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | T            | <del>                                     </del> | ╁            | t  | $\vdash$        |  |  |
|          | 148  |  |  |  |  |              |  |              |  |                 |  |  |
|          | 149  |  | L  | $\Box$   | L  |              |  |              | L  |                 |  |  |
| <u> </u> | 150  | 1  | <u></u>  | <u>L</u> .                                       |  | <u></u>      | 1  | L            | <u> </u>   |                 |  |  |